

AMENDMENTS TO THE ABSTRACT

Kindly replace the original abstract (page 71) with the following substitute abstract.

A compiler comprises an analysis unit that detects directives (options and pragmas) from a user to the compiler, an optimization unit that is made up of a processing unit (a global region allocation unit, a software pipelining unit, a loop unrolling unit, a “if” conversion unit, and a pair instruction generation unit) that performs individual optimization processing designated by options and pragmas from a user, following the directives and the like from the analysis unit, etc. The global region allocation unit performs optimization processing, following designation of the maximum data size of variables to be allocated to a global region, designation of variables to be allocated to the global region, and options and pragmas regarding designation of variables not to be allocated in the global region.